

FIG. 1

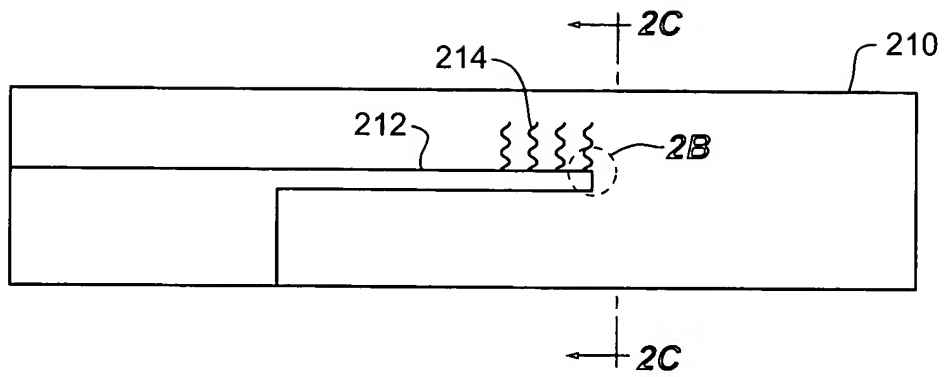


FIG. 2A

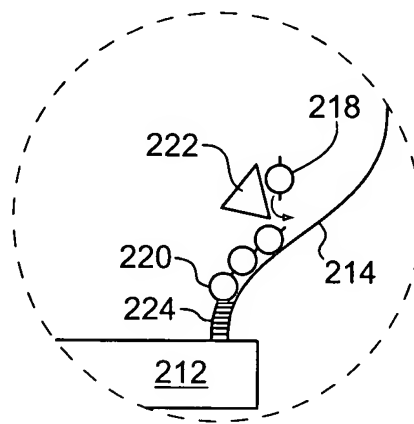


FIG. 2B

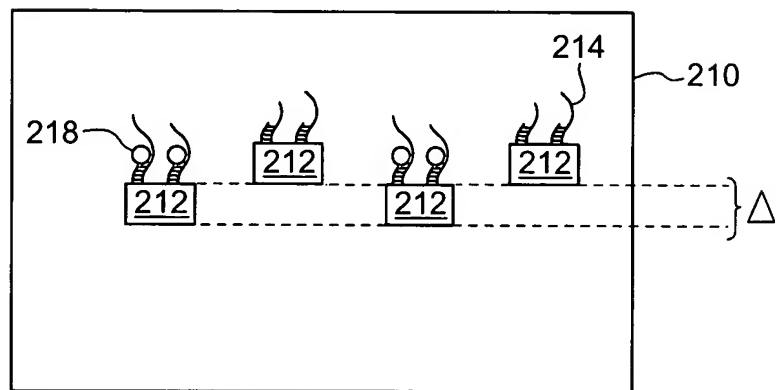
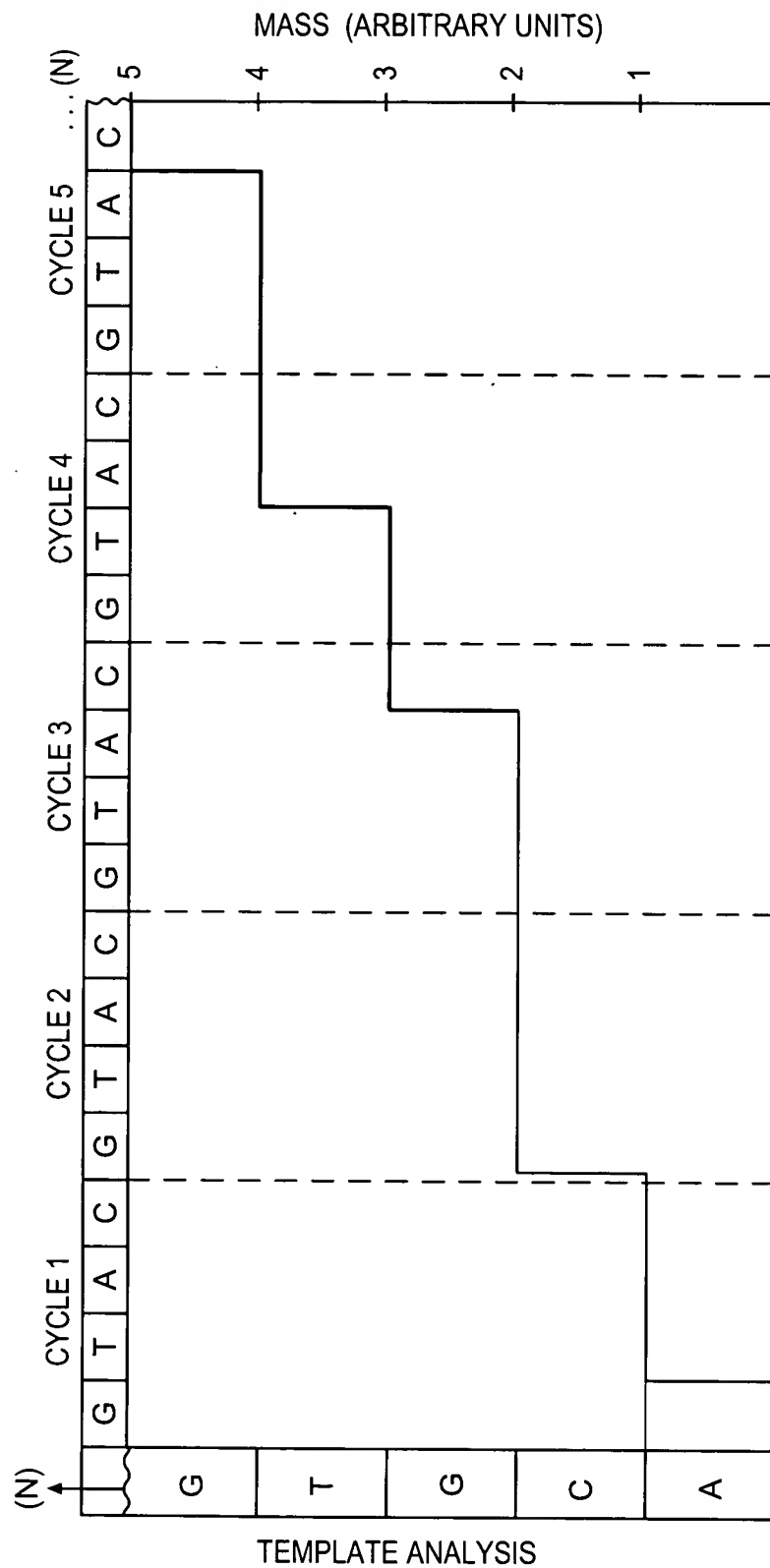
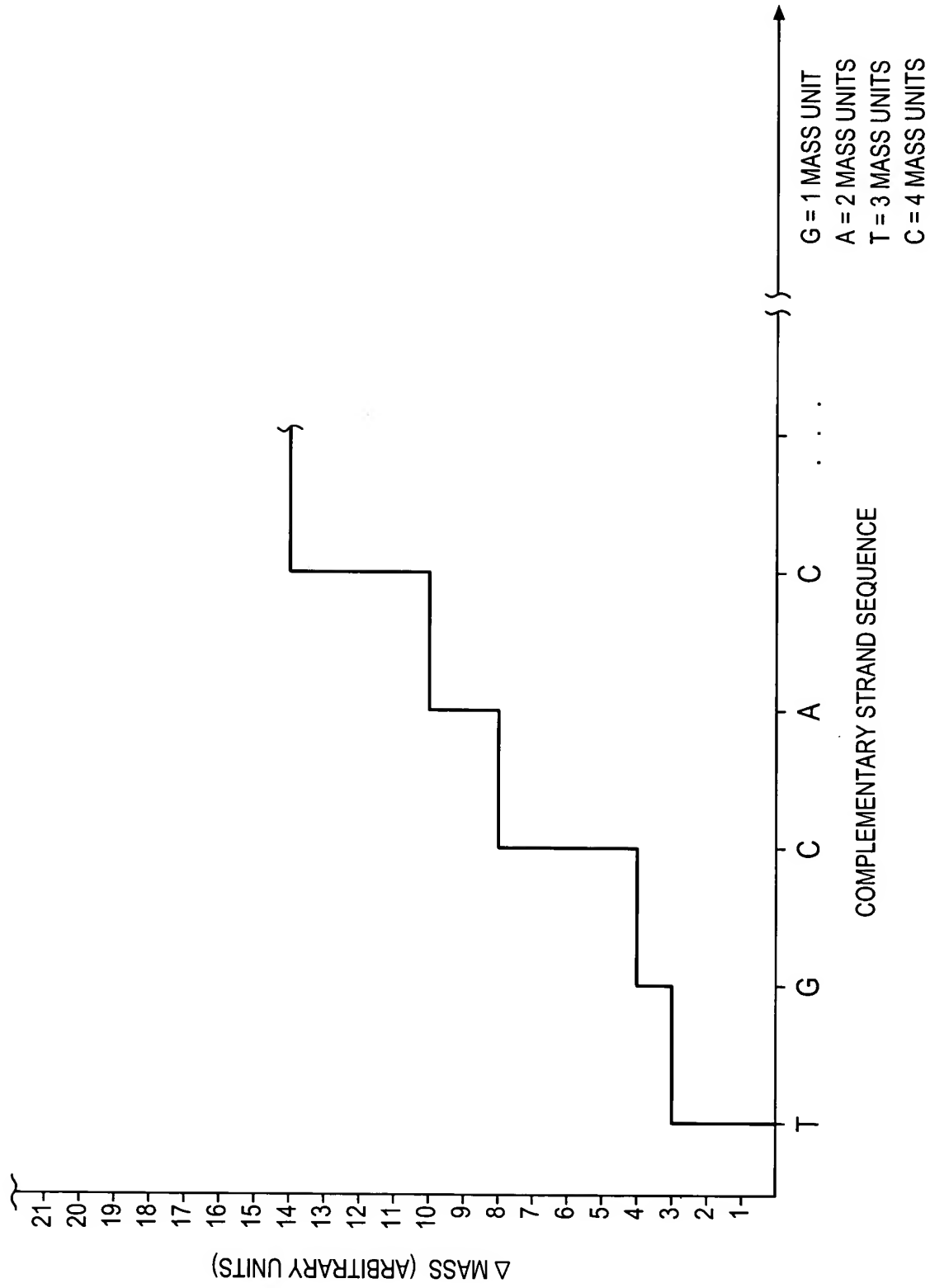


FIG. 2C



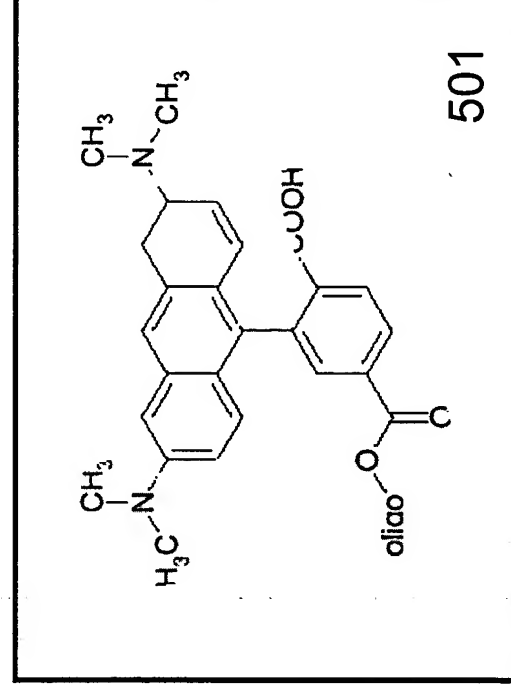
**FIG. 3**



**FIG. 4**

## FIG.5

- To confirm attachment of thiol-modified oligo (SH-1-f) [ThiSS]ACAACAACCATCGC CC-TAMRA) to a gold thin film and to determine the surface coverage



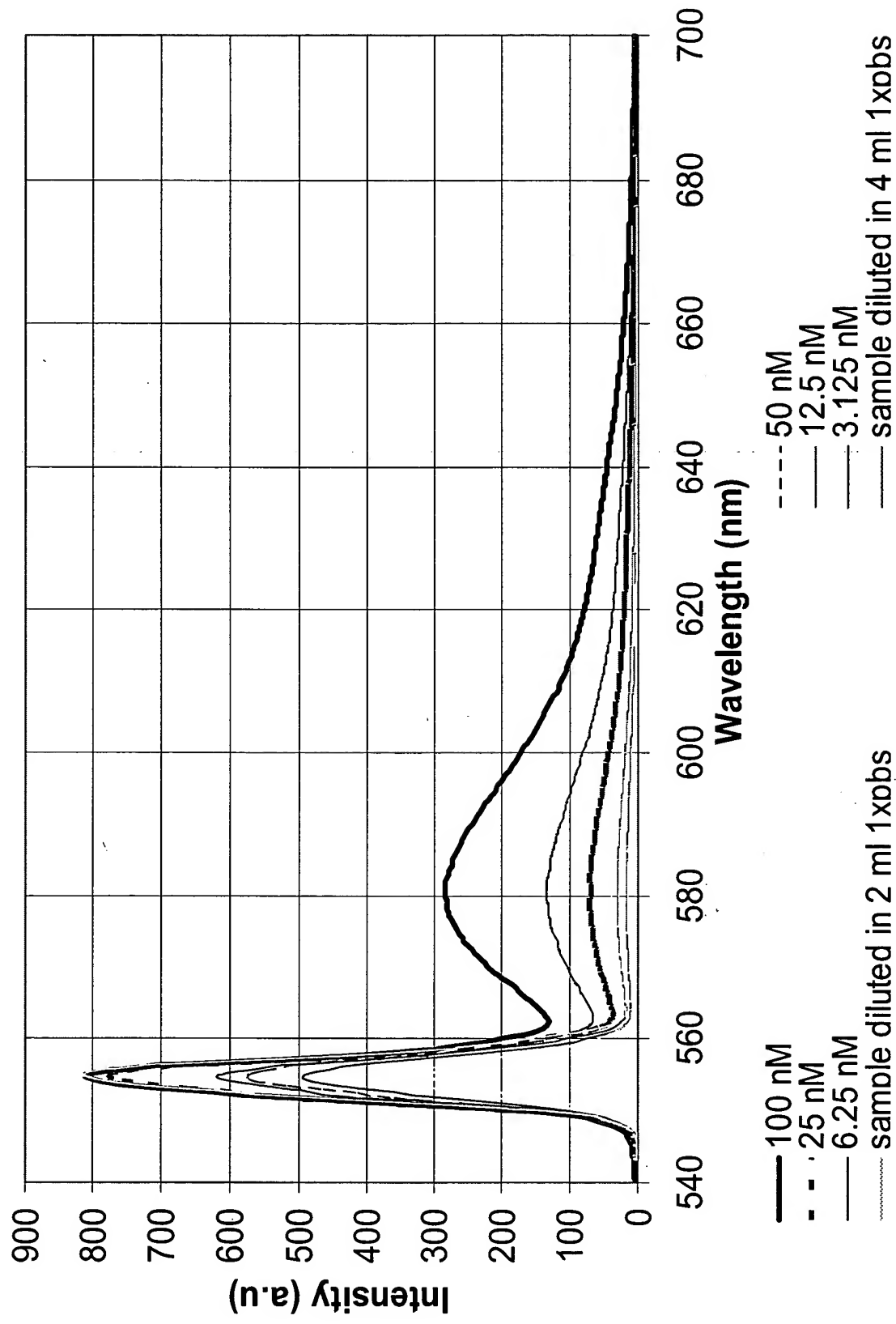
TAMRA

$\lambda_{\text{max,A}}: 555 \text{ nm}$   $\lambda_{\text{max,E}}: 580 \text{ nm}$

- Gold substrates prepared by sputtering using Metallica sputterer at SNF
  - Ti 50 Å, Au 1000 Å on Silicon



FIG. 7



# FIG. 8

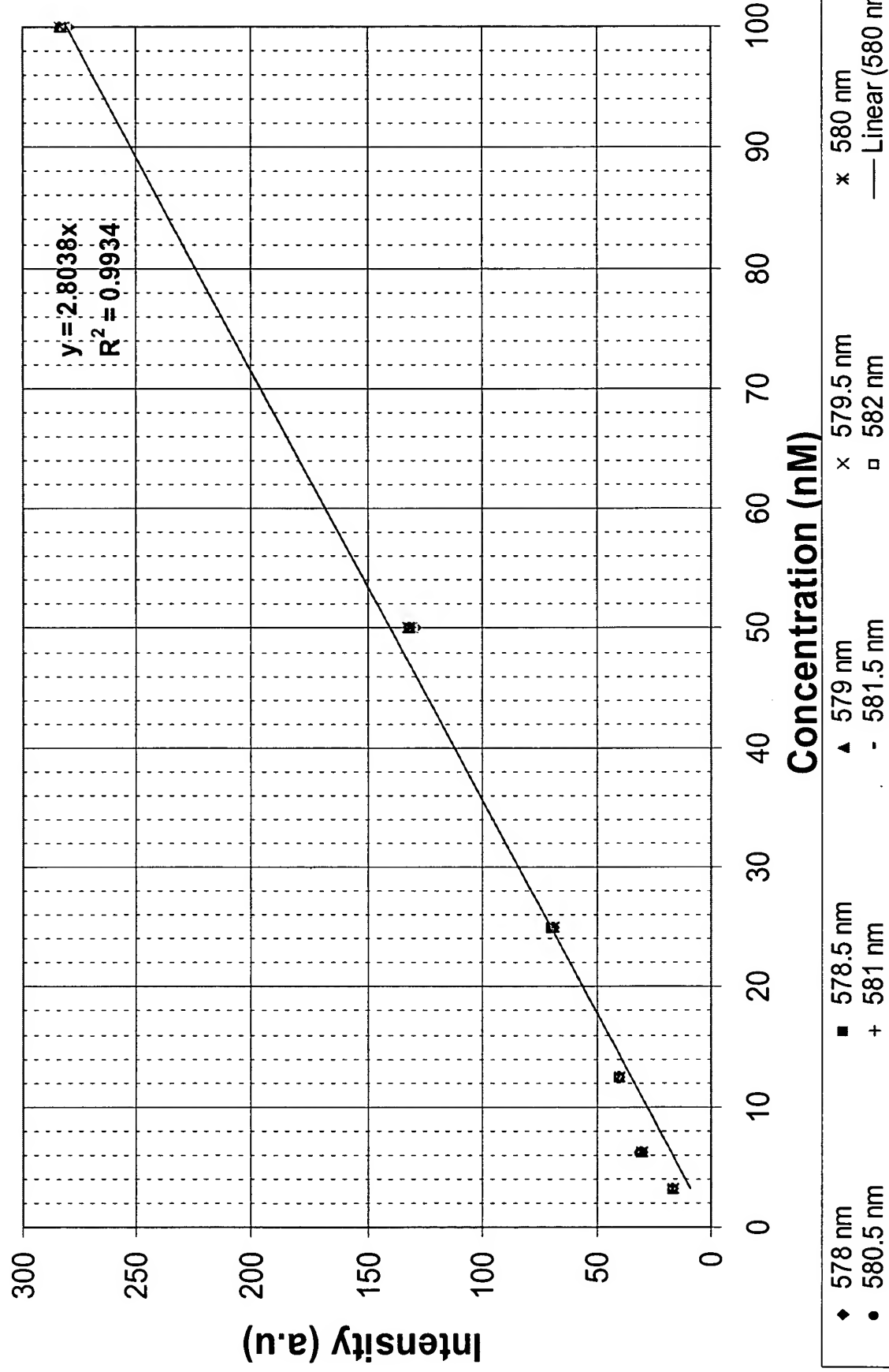
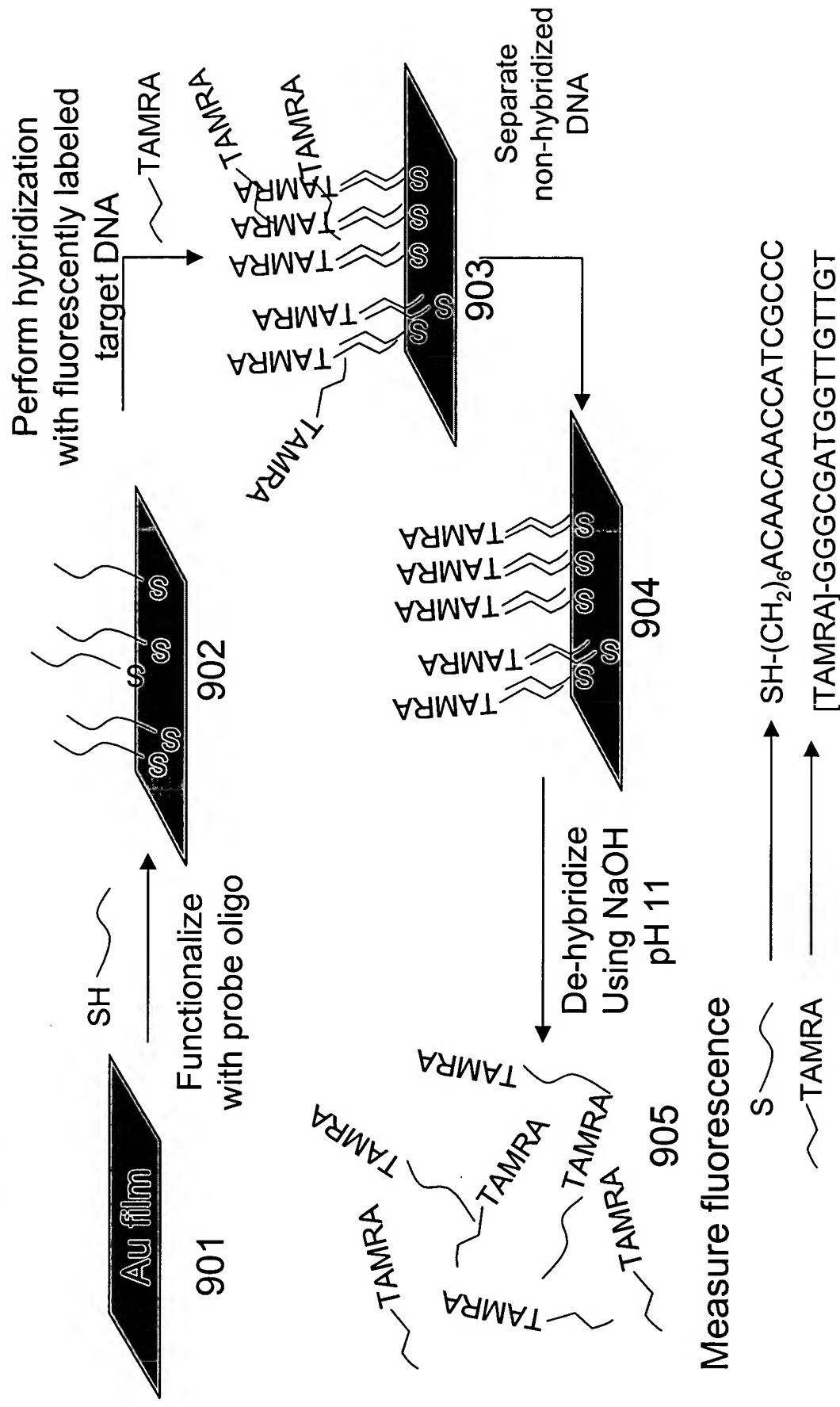




FIG. 9



**FIG.10**

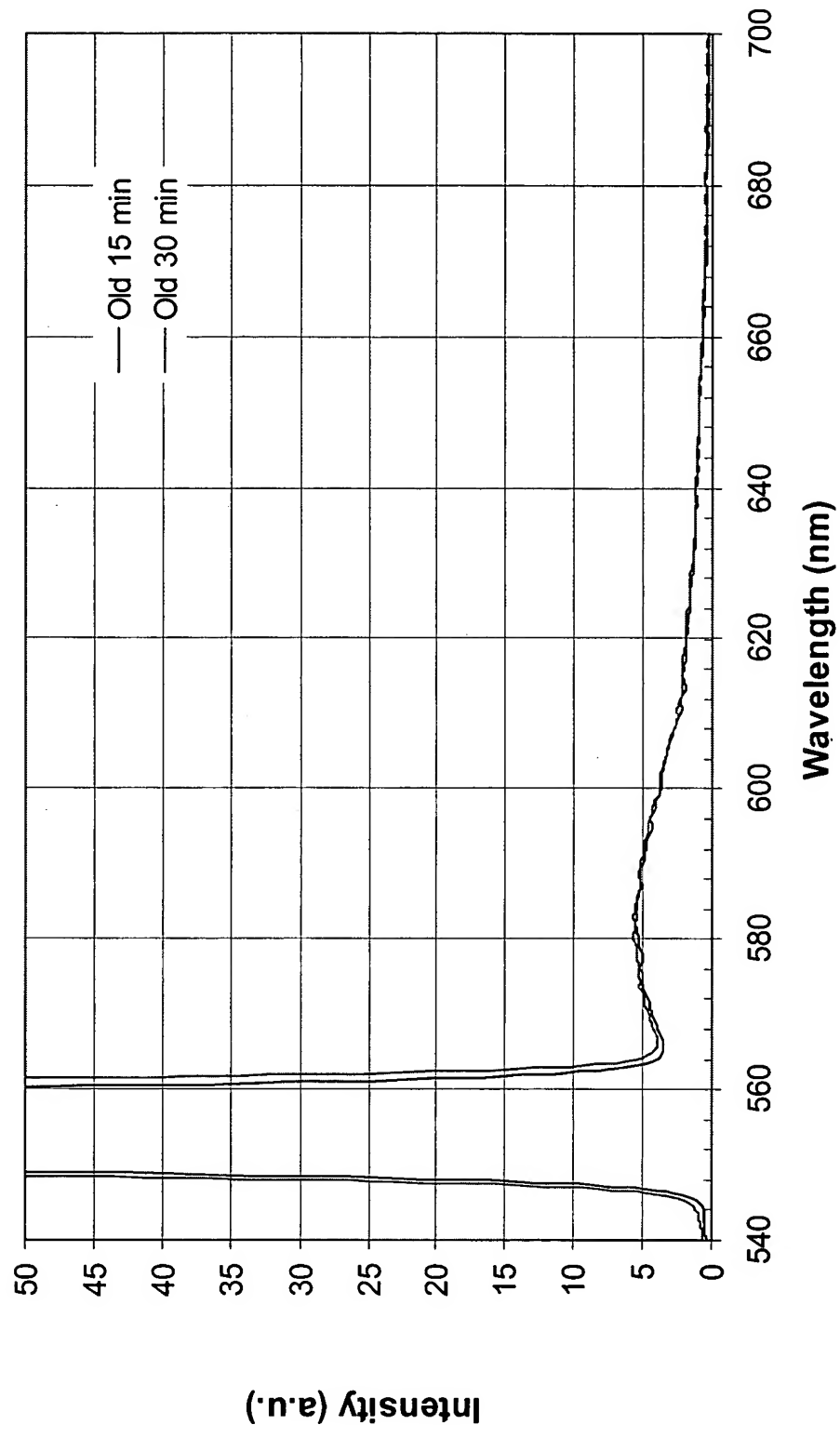


FIG. 11.

